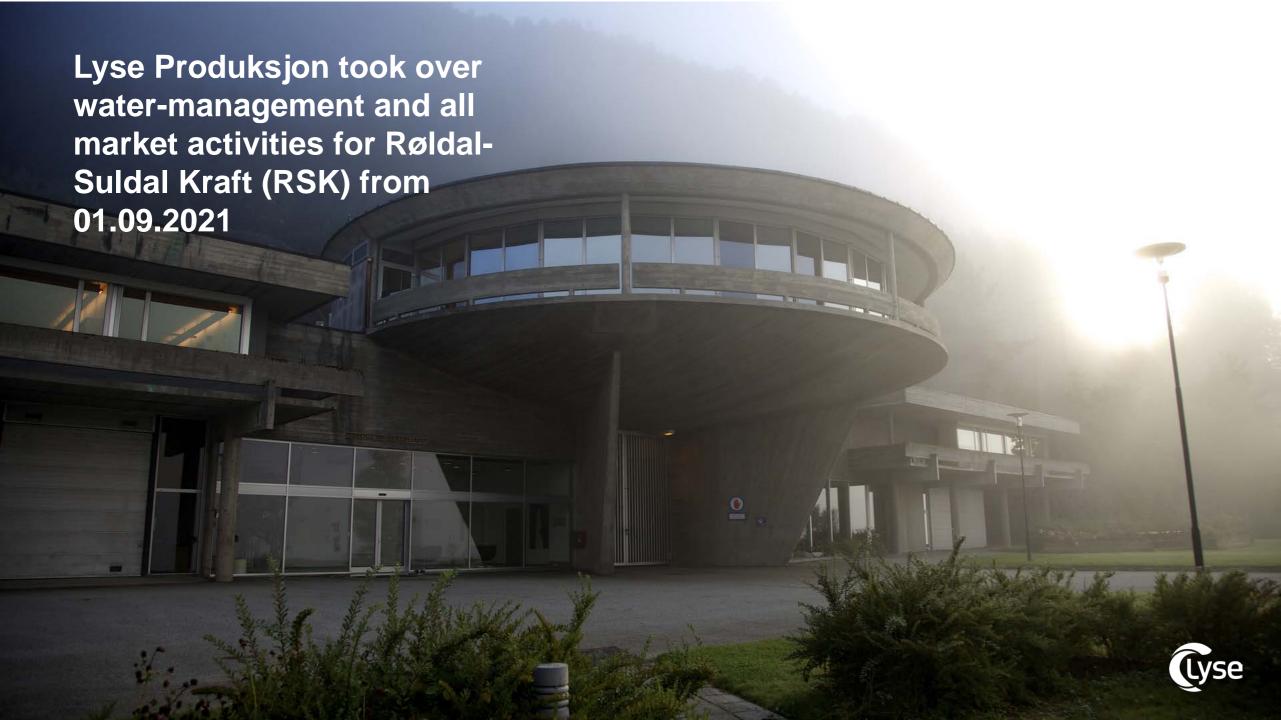


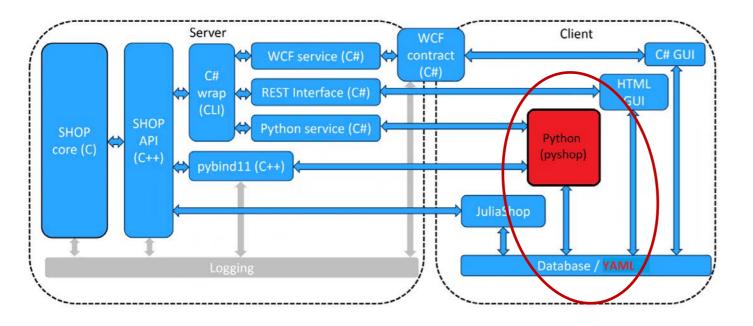
SHOP experiences

Lyse Produksjon AS, User forum and -meeting Hydro Scheduling 2021





We went for pySHOP with model description in YAML



SHOP YAML case

SHOP YAML case consist of four different types of content.

YAML case:

- time
- model
- connections
- commands

model example

The following example is based on a real SHOP YAML case where some attributes a objects have been omitted to give a better overview:

```
model:
    reservoir:
    Reservoir1:
    lrl: 90
    hrl: 100
    vol_head:
    ref: 0
    x:
    - 0
    - 12
    - 14
    y:
    - 90
    - 100
    - 101
```



Project proposal

SHOP Support Lyse

VERSION

1

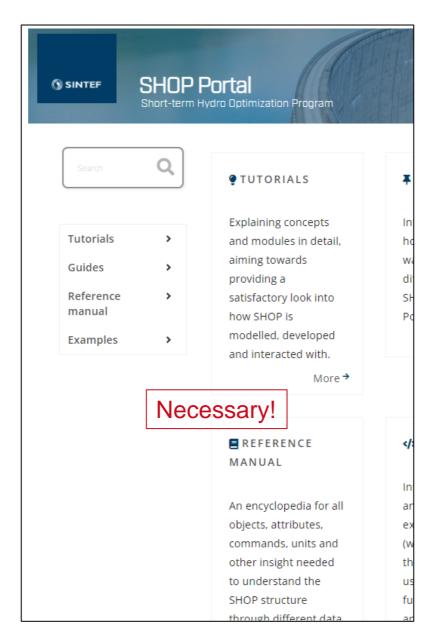
PROSPECTIVE CLIENT

Lyse Produksjon As

PROJECT NO.

Not that necessary!

(or at least not as necessary as we thought)



```
s ShopCaseBaseClass:
def __init__(self, source, shop_init_func=pyshop.ShopSession):
   log.info(f'Init ShopCase : source_type={type(source)}')
    self.shop_init_func = shop_init_func
    self.case = None
    if isinstance(source, pyshop.ShopSession):
        self._from_shopsession(source)
    elif isinstance(source, (dict, DictImitator)):
        self.case = source
    elif isinstance(source, bytes):
        self._from_bytestring(source)
    elif isinstance(source, str) and source[0] == '{':
        self._from_json(source)
    #elif isinstance(source, 'yaml_string'):
    # raise NotImplementedError
    elif isinstance(source, (str, Path)) and (Path(source) / 'model.yaml').exists(
        self._from_dir(source)
    elif isinstance(source, (str, Path)) and '.shop.zip' in Path(source).name:
        self._from_file(source)
    if isinstance(self.case, dict):
        self.case = DictImitator(**self.case)
@property
                                   Really helpful!
def model(self):
   return self.case['model']
@property
def time(self):
   return self.case['time']
def commands(self):
   return self.case['commands']
@property
def connections(self):
   return self.case['connections']
```

https://github.com/nilsra/shopcase



Our architecture

